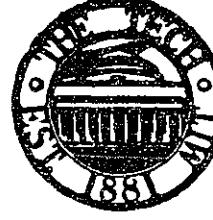


The Tech



OFFICIAL NEWSPAPER OF THE UNDERGRADUATES OF THE MASSACHUSETTS INSTITUTE OF TECHNOLOGY

VOL. LXXV NO. 37

CAMBRIDGE, MASSACHUSETTS, TUESDAY, OCTOBER 25, 1955

5 CENTS

Honorary Societies Meet: Osiris Holds Initiation Dinner; Beaver Key Elects Officers, Forms Permanent Committees

Final '56 Members Admitted To Osiris

Osiris, Senior honorary society, whose membership includes high ranking members of the administration, faculty and student government, met last Friday night at the Club of Odd Volumes, 77 Mount Vernon street, to hold its semi-annual initiation ceremony and dinner.

Among those initiated at the three-and-a-half hour meeting were Robert J. Alter, chairman of International Program Committee and a junior member of Tau Beta Pi, Julio B. Arroyo, chairman of Public Relations Committee, William Layson, former officer of the class of '56, and Paul Luckett, Fraternity Judicial Chairman.

Basically a senior society, Osiris meets a group of juniors in the spring of each year and a group of seniors in the fall. Dedicated to the benefit of the Institute, the undergraduate members meet with alumni members and members of the faculty for discussion. The seven members elected in the spring are: Stephen N. Cohen, Editor of *The Tech*, Fred Culick, Institute Judicial Chairman, Thomas S. Doherty, former General Manager of Tech Show, Oliver D. Johns, President of the senior class, George Luhrmann, IFC President, Jesse Rothstein, East Campus House Committee Chairman and John S. Saloma, Undergraduate Association President.

Among those present were Deans E. Francis Bowditch and Frederick B. Fassett, Erwin H. Schell, former head of Course XV and '55 class president W. Chandler Stevens.

Study Of Housing Now In Progress

Currently studying the problems of undergraduate housing and weighing possible improvements, is the President's Commission on Student Housing, the much-talked about Ryer Committee. Headed by Edwin D. Ryer '26, the committee includes undergraduate representatives, Jesse Rothstein '56 and Malcolm M. Jones '57, graduate representative Thomas W. Mix, ex-officio members, Dean E. Francis Bowditch and R. Colin MacLaurin, ex-officio members, Malcolm G. Kispert, administration representative, Harold B. Richmond, Corporation representative, Professors John T. Rule, Leicester Hamilton and Laurens Troost, and alumni member Arthur Wasserman.

The committee will submit its report to the Corporation sometime early next year. Emphatically not a cure-all or catch-all for Institute problems, the group is doing a much-needed job. Their goal is to come up with realistic solutions to some very real problems. The committee is focusing study now on the dormitory system and the possibility of moving fraternities "on campus".

Their information has come from a careful study of housing at other colleges, especially the Ivy League schools, from the Dormitory Development Committee (Troost Committee) and from the personal experience of the committee members.

No report will be issued until the final report to the corporation, which will pass judgment on the report and its suggestions, but undergraduate representative Jesse Rothstein '56, East Campus House Committee Chairman said that the group was "moving along with great progress."

Frosh Win First Tug-of-War Pull, Initial Control Of The Purple Shaft

Saturday, October 21, the frosh, outmanned and outpulled the class of '58. At one o'clock, a cold, clear afternoon, 375 "eager beavers" assembled on Briggs Field for the annual tug-of-war to decide which class would gain possession of the infamous Purple Shaft. Of the 375, about 225 were freshmen. The Class of '58 had the biggest sophomore turnout in years for this event, 150 men.

As everyone dug in for the big pull, more and more upperclassmen arrived, and the situation went from impossible to improbable for the sophs. When the big pull started, the sophomores pulled about five feet to their side,

but then the weight of the frosh numbers began to tell. The sophs were stopped and slowly pulled back. Larry Andrews, president of the Class of '58 urged the class on, but before anyone realized that they had gone back five feet, the gun was sounded and the Class of '59 was pronounced the winner.

Mickey Riess '56, president of the Field Day Committee, presented Bud Long, president of the Freshman Council, with the Purple Shaft. This Purple Shaft must be presented to a Sophomore in the presence of 10% of the Sophomore Class twice before Field Day, at which time it is worth one point.



Applying the Shaft

Possible Uses Of duPont Bequest For Athletic Expansion Studied

How does one go about spending a million dollars? That is the question facing the Committee on Expansion of Athletic Facilities, which is concerning itself with the problem of appropriating the million dollars left by the late David duPont '56 to be used for the improvement of Institute athletics. The committee is composed of James Hamblet '56, Athletic Association representative and chairman of the committee, Richard File '58, secretary of the committee and fraternity representative, Robert Hall '57, commuter representative, Benson Chertok '57, dormitory representative, and Jack Redlin, graduate student representative.

The committee has prepared a report on the suggestions that have been presented to them so far. The report was submitted today, Tuesday, October 25.

One major idea is to invest the million dollars and use the interest every year to make small improvements on the present facilities, or to make small changes or additions to present buildings. One such proposal is to build a lodge in New Hampshire, near a ski resort and a lake, to be used by all members of the MIT family, in the winter as a place to stay while on a ski trip and in the summer for a place to escape the heat of Boston. Other proposals are; build a crew rowing tank, hire an intramural coordinator, whose main function will be to control the intramural program, and improve Briggs Field.

The other alternative is to spend the money in one lump sum, as for example to build a new central athletic plant, to contain a gymnasium, offices for the coaches and other athletic facilities. However, such a major expense cannot be authorized until the report of the Ryer committee is completed.

The Ryer committee is composed of members of the faculty, alumni, the

corporation and two members of the student body, Jesse Rothstein '56 and Mal Jones '57. The purpose of this committee is to set a general plan for future development of the Institute campus. Though this committee will not directly determine the location of the proposed central athletic plant, its decisions will indirectly determine the feasibility of such a plant. And should the Ryer committee decide that such a plant is practicable and desirable, then the Institute will arrange for financing such a building, and leave the duPont money for other uses.

The student body should see some concrete action taken on the duPont money before December, according to Ben Chertok, dorm representative.

Bleiden, Smith, Zombeck, Stewart Elected; Committee To Weigh Proposed Functions

Under the leadership of Richard Bleiden '57, newly elected president, the 1955-56 Beaver Key is embarking on a reorganized program which, Bleiden thinks, will make the Key a "more meaningful and more valuable organization both to the Institute and to its members." Both an honorary and a service group, the Key, a Junior society, has remained virtually at a standstill for several years.

President Bleiden, Vice-President Harold Smith, Secretary Martin Zombeck, Treasurer Thomas Stewart and Member-at-Large John Friedman recommended the formation of standing committees to divide the group into smaller and more efficient groups. Recommendations were also made to substitute for the traditional ice cream after the game, receptions whenever feasible for both home and visiting teams and, otherwise, more

suitable refreshment.

Meeting last Wednesday, the Society approved formation of four standing subcommittees. Vice-President Smith will head the Sports Committee, which is responsible for handling the Key's traditional service at all home games. Hank Salzhauer and Mike Brenner will head the Development subcommittee which will study the operation of the Key and what new functions it might perform as well as discuss the formation of a varsity club, a subject which was studied by an Athletic Association committee last year, but which has for all intensive purposes been dropped without recommendation. Fitz Rawis and Gary Dischel will head the social committee and a publicity group will give some much needed help to the AA on internal sports publicity.

Center For International Studies Investigates Many World Problems

Four years ago the Institute set up a new laboratory, sans test tubes, sans measuring devices, and sans white-frocked technicians. This "laboratory" is the Center for International Studies, a center of research in international, social, political, and economic problems.

Since its founding in 1951, the Center, directed by Dr. Max F. Millikan, has explored and published its findings on three basic subjects, international communications, economic and political development of "backward" nations, and United States—Communist bloc relations. This fall the Center has commenced study on a fourth problem, the relationship between American society and the world at large.

The international communication program is primarily concerned with how influential people in various countries get information on issues of world significance. The economic and political development program is designed to increase understanding of the forces which affect the rate of economic growth and the political uses.

The student body should see some

and social consequences of economic metamorphosis. The program on United States—Communist bloc relations concentrates on academic knowledge available from historical and analytical studies of Russia, China, and Eastern Europe about problems the United States faces in its relations with the Soviet bloc.

The American society program, which is headed by Professor (of Economic History) Walt W. Rostow, will examine the relationship between American institutions and values and America's position in today's world. It will try to find answers to such questions as: How has American society responded to the challenge of its world-wide responsibility in the last fifteen years? What qualities in American society have strengthened U.S. performance on the world scene?

The Center for International Studies is purely a research group. It enrolls no students and offers no courses. Its projects are financed by short-term grants from organizations

(Continued on page 5)

New Policy For NSA Member Schools Is Model Educational Practice Standards

Believing that our educational system should secure and maintain equal rights for all people regardless of race, color, national origin, sex, creed, religion, political belief or economic circumstance, the United States National Student Association at its eighth national student congress in Minneapolis, Minnesota passed a resolution called "Model Educational Practice Standards." The MEPS is an idealistic policy to be employed

on the campus to meet the goal of obtaining a democratic atmosphere in which to learn democratic principles. The USNSA asked each member school to adopt this resolution and to evaluate itself to see how it measures up to the MEPS. Institute Committee at its next meeting on Wednesday, October 26, in Litchfield Lounge, Walker Memorial, plans to

discuss the MEPS. The following is a summary of the MEPS giving a listing of the main areas and including an explanation where the area title is not self-explanatory:

Preamble: "While it is recognized that some of the undemocratic practices in higher education have their roots in history, every effort should be made to change those practices where they are incompatible with democratic principles.

"The USNSA will seek to secure and maintain equal rights for all people, and secure equal opportunities for education at all levels, regardless of race, color, national origin, sex, creed, religion, and political belief or economic circumstance, especially by seeking the eventual elimination of all forms of discriminatory educational practices everywhere in the United

States, since the USNSA is opposed in principle to such practices."

Area 1—Admissions. "No access to educational opportunity should be denied to a member of society. Character and academic standing are the only two valid considerations determining admission to an educational institution. . ."

Area 2—Scholarships, Grants, and Loans. These should be encouraged to further reduce the economic barriers to education, however, no new ones should be accepted if they carry discriminatory restrictions.

Area 3—Classroom Procedures and Curricula. Procedures, courses, and teachers should not discriminate against a student for race, color, creed or national origin.

Area 4—Student Teaching Training. Area 5—College Employment Policies. This

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Tuesday, October 25, 1955

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The Tech

calendar of events

wed. october 26 through wed. november 2, 1955

WEDNESDAY, OCTOBER 26

Freshman Soccer Team. Match with Harvard University. Briggs Field, 3:45 p.m. Electrical Engineering Department. Colloquium: "Atomic Time." Professor Jerrold R. Zacharias, Physics Department. Room 10-275, 4:00 p.m. Refreshments in Room 10-340 at 4:30 p.m.

Mathematics Department. Colloquium: "Integrals." Professor J. C. Burkhill, Cambridge University, England; Institute for Advanced Study, Princeton. Room 2-282, 4:00 p.m.

Order of DeMolay—MIT Chapter. Stated Meeting. Hayden Library Lounge, 7:30 p.m.

THURSDAY, OCTOBER 27

Catholic Club. Weekly Discussion Group, conducted by Father Nugent. Room 5-108, 4:00 p.m.

Biology Department. Harvard-MIT Biochemistry Seminar: "Mechanism of Metal-Ion Catalyzed Reactions." Dr. Frank H. Westheimer, Department of Chemistry, Harvard University. Room 16-310, 5:00 p.m. Tea in Room 16-711 at 4:30 p.m.

MIT Chemical Society. Lecture: "The Chemistry Bachelor and Graduate Schools." Professor Arthur C. Cope, Chemistry Department. Room 6-321, 5:00 p.m.

Lecture Series Committee. Film: "Man on a Tite Rope." Room 10-250, 5:00, 7:30 and 9:30 p.m. Admission, 30 cents.

FRIDAY, OCTOBER 28

Mechanical Engineering Department. Seminar: "Problems in the Fatigue of Metals." Professor Frank A. McClintock, Mechanical Engineering Department. Room 3-270, 3:30 p.m. Coffee in Room 3-174 from 3:00-3:30 p.m.

Varsity and Freshman Soccer Teams. Match with University of Connecticut. Briggs Field, 3:30 p.m.

Aeronautical Engineering Department. Seminar: Lecture by Dr. Edward P. Warner, President, Council of the International Civil Aviation Organization of the United Nations. Room 35-225, 4:00 p.m. Coffee in duPont Room from 3:30-4:00 p.m.

Dramashop. Two One-Act Plays. Little Theater, Kresge Auditorium, 8:00 p.m. Admission: FREE.

SATURDAY, OCTOBER 29

MIT Bridge Club. Duplicate Tournament. Baker House Cafeteria, 1:30 p.m. Varsity Cross Country Track Team. Meet with Northeastern University and Tufts College. Franklin Park, 2:00 p.m.

SUNDAY, OCTOBER 30

Freshman Sailing Team. Dual Meet with Harvard University. Sailing Pavilion, 10:00 a.m.

TUESDAY, NOVEMBER 1

Acoustics Laboratory. Seminar: "Thermal Relaxation Times in Gases." Mr. Stephen J. Lukasik, Acoustics Laboratory. Room 20E-225, 3:30 p.m.

Metallurgy Department. Colloquium: "Unsolved Problems in Physical Metallurgy." Professor Bruce Chalmers, Harvard University. Room 35-225, 4:00 p.m.

American Society of Mechanical Engineers—Student Chapter. Open Meeting: "The Development of Current Problems in Guided Missiles." Professor Knox Millsaps, Mechanical Engineering Department. Room 3-270, 5:00 p.m.

Whirlwind Computer Open House. Barta Building, 5:00 p.m. Reservations suggested.

Endicott House: Informal Social Dinner—all members of the Technology Community are invited. Endicott House, Dedham, 6:30 p.m. Please call Dedham 3-5151 for reservations (\$2.50 per person).

WEDNESDAY, NOVEMBER 2

Electrical Engineering Department. Colloquium: "Pattern Recognition and Learning." Mr. Oliver G. Selfridge, Lincoln Laboratory. Room 10-275, 4:00 p.m. Refreshments in Room 10-340, 4:30 p.m.

EXHIBITS

Photomurals of Grecian sculpture and architecture will be featured in an exhibition entitled "Greece—VI, V, and IV Centuries" to be held in the New Gallery of the Charles Hayden Library through November 1. Hours: Monday through Friday, 9:00 a.m.-5:00 p.m.; Saturday and Sunday, 2:00-5:00 p.m.

MIT HUMANITIES SERIES

Tickets for the 1955-56 Humanities Series of four Sunday afternoon concerts may be ordered by mail from Room 14-N236, MIT. Concerts, which will be held in Kresge Auditorium at 3:00 p.m., will feature Norma Farber and members of the Boston Symphony Orchestra on November 20, Ernst Levy on December 18, Juilliard String Quartet on February 19, and Hungarian Quartet on March 11, at a series price of \$4.00 and a special student rate of \$3.00. Checks should be made payable to MIT Humanities Series.

CHAPEL

Daily Services (except weekends): Roman Catholic Mass at 7:55 a.m.

Tuesday, November 1: All Saints' Day—Holy Day of Obligation.

CALENDAR OF EVENTS (Cont. on page 8)

the college world

by Ken Mitzner '58

Maybe engineers are different. The average Joe College, if the muse strikes him, writes noble verse dedicated to the woman he loves. Engineers, too, put poetic passion on paper. However, they do not laud a lady love; they sing the sweet song of the lipstick. For example, this poem appeared recently in the Missouri Miner:

ENGINEERS—THEIR LOVE

Fools may sing of hearts and love,
And eyes and cheeks and hair,
Write sonnets to a woman's glove,
And swear her wonders fair.
Bah! She's an artificial thing,
All powder, paint, and lipstick,
But listen to the song I sing,
And hail my love, the lipstick.

Women are babbling all the time
Of dates and drinks and dresses,
Which couldn't help at all when I'm
Computing strains and stresses.
It conquers without fear or doubt
Whole hosts of sines and curves
And helps me work in peace
Without an avalanche of words.

Slide rules are always accurate.
Women never so;
And though they're not affectionate
They never answer "No!"
So hence with woman's wanton ways,
With eyebrows, lips, and curls,
My little log-log polyphase,
Is worth a dozen girls.

* * * *

About a week later, the Renssalaer Polytechnic published the following ode:

ALMOST A KING

See the busy engineer—
He works both day and night.
Within his brain a constant train
Of logarythms fight.
Equations, integrations—
Each to him a well-known tool,
But the one thing he cannot get
Is love from his slide-rule.
How high is it? How wide is it?
What pressures can it stand?

(Continued on page 8)

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Melville Smith, organ; Wolfe Wolfsohn, violin; Florence Freeman, violin; Klaus Liepmann, viola; Virginia Bacon, cello.

Suite from the Livre d'Orgue (1739).....Francis Dandrieu
Chorale Preludes from the Klavierubung (1739).....J. S. Bach
Quintet No. 1 for organ and string quartet (1776).....Antoni Soler

by Daniel B. Schneider '57

On Sunday afternoon in the MIT Chapel, a musical program was presented which we sincerely hope will herald numerous such concerts in the near future. Mr. Melville Smith, director of the Longy School of Music in Cambridge, performed three works on the chapel organ, the last of which was for organ plus string quartet.

This program was the same one which was given on October 17 for a convention of the New England chapter of the American Guild of Organists, and the near-capacity audience seemed quite pleased that there was a repeat performance for the general public.

Mr. Smith is a very competent organist who plays meticulously, but is not at all "dramatic" in visual appearance, as some others in his profession are wont to be. He handled the instrument well, and displayed a good sense of interpretation in addition to excellent technique.

The chapel organ is very "baroque",

in respect to its "tune" and its absence of volume control. It is perfect for the size of the chapel, filling it completely with well-balanced sound, while at no time being too loud. The works performed, having been written for that type of instrument, sounded exceptionally fine.

The closing number, the quintet by Soler, was well played, and served to round out the program. Unfortunately, the performance of the quartet did not quite match that of the organist, but it detracted only slightly from the whole.

Concerts such as Sunday's are always highly enjoyable, but rare events. The fact that admission was without charge makes the event even rarer. It was therefore unfortunate that there was such little advance notice. This should be remedied in the future, for many students would have attended had they known about it. Now that MIT has the facility, let us pray that such programs will cease to be rare.



ADVENTURES IN SOCIAL SCIENCE: NO. 1

"The proper study of mankind is man," said Geoffrey Chaucer in his immortal *Casey at the Bat*, and I couldn't agree more. In these tangled times it is particularly proper to study man—how he lives, how he functions, how he works. Accordingly, this column, normally devoted to slapdash waggery, will from time to time turn a serious eye on the social sciences.

In making these occasional departures, I have the hearty approval of the makers of Philip Morris Cigarettes, whose interest is not only in promoting the pleasure of young Americans by providing them with a gentle cigarette, matchlessly blended of vintage tobaccos, grown with loving care and harvested with tender mercy, then cured with compassionate patience and rolled into firm, tasty cylinders and brought to you in king size or regular, wrapped in fetching packages of lively crimson and pristine white, at prices that wreak no havoc on the most stringent of budgets; but who are equally concerned with broadening the minds and extending the intellectual vistas of every college man and every college woman.

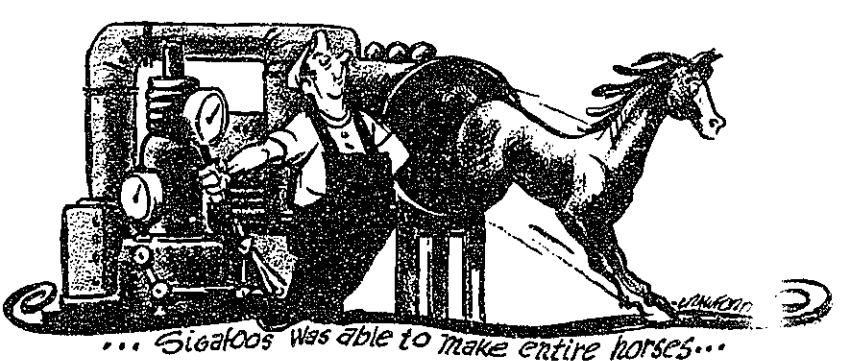
I, for one, am not unmoved by this great-heartedness in the makers of Philip Morris, and though I know it is considered chic these days to disparage one's employer, I shall not. Indeed, I shall cry "Huzzah!" for the makers of Philip Morris. I shall cry "Huzzah!" and "Bon appetit!" and "Stout Fellows!"

But I digress. For our first lesson in social science, let us turn to the study of economics, often called the queen of the social sciences. (Sociology is the jack.) Economics breaks down into two broad general classifications: 1) coins; 2) folding money. But before taking up these technical aspects, let us survey briefly the history of economics.

Economics was discovered by the Englishman, Adam Smith. He published his theories in 1778, but everybody giggled so hard that Smith, blushing hotly, gave up the whole thing and went into the cough drop business with his brother.

For long years after that, economics lay neglected while the world busied itself with other things, like the birth of Victor Hugo, the last days of Pompeii, and the Bunny Hug.

Then one day while flying a kite during a thunderstorm, the American Henry George (also called Thorstein Veblen) discovered the law of diminishing returns, and then, boy, the fat was in the fire! Before you could say "knife," the Industrial Revolution was on! Mechanization and steam power resulted in prodigies of production. For example, a Welsh artisan named Dylan Sigafos before the Industrial Revolution used to make horseshoes by hand at the rate of four a day. After the Industrial Revolution, with the aid of a steam engine, Sigafos was able to make entire horses.



And so it went—factories rising from the plains, cities burgeoning around the factories, transport and commerce keeping pace—until today, thanks to economics, we have smog, de-resions, and economics textbooks at \$5.50.

The makers of Philip Morris, who bring you this column, are no economists, but they do

ivory tower

by Berthold Lippel '56

A day shimmering with light and color. A ride through the countryside. Destination: Brandeis U.—the Hamilton dorm is holding an open house. Along the Charles, past the somnolent Harvard houses, Sunday drivers everywhere, through undistinguished Waltham, and there is the Brandeis campus. We park and climb up the winding road to the dormitory. An inquiry reveals that our host for the afternoon is in room X. Lovely room, large bay window, closets painted an odd and violent orange. Everything is in spot and span order, the kind of order that can be seen only during open house hours. Our host is going to show us around the campus, we go downstairs. In the lounge a phonograph blares, two couples dance listlessly, punch and pretzels are served, students mill around, greet each other or feverishly look for somebody to greet. We leave the dorm, the sightseeing tour has begun. First stop: the chapels. Very modern in conception and construction. Striking aspect ratio—very narrow and very high. The doors are all locked, this is very disappointing, chapels should never be locked. Onward and upward, to the "castle." A real, honest to goodness, fairy tale castle. Dramatic towers and spires and balconies. One almost expects a knight in armor to come riding through the gate. However, no knight appears. Only automobiles and proud-looking parents inspecting their investment. A snack-bar where the dungeons should be. We go back down the road. The library: half refurbished barn, half ultra modern glass cage. The open air theatre, with its huge stage and Greek simplicity. Buildings, buildings everywhere, new buildings, half finished buildings, planned buildings. We inquire apologetically whether there are any classrooms built on the campus. Sure, we are told, and shown a rather small, unpretentious red brick building, this is where the class rooms are. We wonder silently whether there is any space problem in the classrooms. Back to the lounge, the tour is ended. The punch is gone, but we find a pretzel which we munch pensively while looking around and try to sort out our impressions. A bit dangerous, that—first impressions are sometimes mistaken. It is a lovely campus, there is no question about that. But a school is more than just buildings. It is a philosophy and a spirit and ideals and a community of mind first of all. We find that we have learned nothing about all this. Our guide has pointed with pride to the library, but mentioned nothing about its content; shown us the classrooms but said a word about the people teaching in them, their methods and qualities and faults. We were shown the chapels, but told nothing about

(Continued on page 8)

**Six Phones Gone
From Dormitories
Of East Campus**

Last week East Campus was the scene of extensive vandalism which resulted in the theft of several telephone units which served as Institute extensions in the dormitories. The phones taken were from Nichols, Holman and Crafts first floors in the Senior Houses, and Monroe third and fourth and Goodale second floors in the "Parallel Dorms". In each case the entire unit was ripped from the wall.

Professor C. E. Tucker, of the Department of Electrical Engineering, who is in charge of the Institute phone system has stated that these phones will not be replaced by the telephone company as they represent an original cost of twenty-five dollars a unit. If the phones are returned they will be reinstalled at a cost of approximately three dollars per unit. It has not yet been decided who will bear the cost.

On a previous occasion six phones were taken but were returned within a week's time. They were then put back into service.

The missing phones may be returned to Jesse Rothstein '56, Chairman of the East Campus House Committee, who has expressed a desire to see the units back in service as quickly as possible.

the kibitzer

by Lee S. Richardson '50

NORTH

S—K J 10
H—A K 8 7 4 2
D—A 4
C—A 8

WEST

S—5 4
H—10 9 6 5
D—6 5 3
C—10 9 6 5

EAST

S—Q 7 3
H—J 3
D—K 9 7 2
C—K 7 4 2

SOUTH

S—A 9 8 6 2
H—Q
D—Q J 10 8
C—Q J 3

The Bidding:

N	E	S	W
P	P	2S	P
6S	P	P	P

Opening Lead: Ten of hearts.

Today's hand shows the advantages (?) of a new bidding system used by some of the more adventuresome bridge players at the MIT Bridge Club. The essential point of the system

is simply that you open when you have less than 13 points and pass when you have more. This particular hand shows how it avoids revealing information to the opponents and improves the chances of a favorable opening lead.

South opened two spades after his partner's forcing first hand pass. North, assured of an opening bid in his partner's hand, simply went to slam directly. West was put to the guess as to what to lead. He chose an opening heart lead as an innocuous one, but the lead turned out to be disastrous. An opening diamond or club would force declarer to guess the location of the trump queen. The heart lead gave him a chance to develop his twelfth trick another way.

The opening lead was taken by declarer's queen. He then cashed the ace and king of trumps, hoping the queen would fall. When it didn't he left it outstanding. He then cashed the ace of hearts, discarding a small diamond. The king of hearts was then led. If hearts split, all was well. They did not. East discarded a club, as he certainly didn't want to lead. South discarded another diamond. He then trumped a small heart in his hand and exited with a small trump. East was in the lead and had to lead from one of his kings, giving south his extra trick, and allowing six spades to be made.

GRADUATES

in Engineering, Mathematics, Physics

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new C-130A turbo-prop transports and B-47 jet bombers are being manufactured in the country's largest aircraft plant under one roof. The division is already one of the South's largest industries. In addition, advanced research and development are underway on nuclear energy and its relationship to aircraft. A number of other highly significant classified projects augment the extensive production program.

New positions have been created for graduates in: Aeronautical, Civil, Electrical and Mechanical Engineering and Mathematics and Physics.

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specializes in the technology of guided missiles. Its research and development cover virtually every field of scientific endeavor, and offer engineers and scientists problems of increasing complexity. Positions are open for B.S., M.S. and Ph.D. candidates in: Aeronautical, Electrical and Mechanical Engineering and Mathematics and Physics. In addition, a scholarship program leading to M.S. Degrees has been established for those able to qualify for graduate standing.

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Fumbles Stall Freshman Offense; Freshman Booters Gridders, Thayer In Scoreless Tie Edged By Brown

Opening their preparatory season for Field Day, the Freshman football team was held to a scoreless tie Saturday afternoon by a weak Thayer School team. Playing on the Thayer field in Braintree, the Frosh monopolized the ball, but due to frequent fumbling, they were unable to push the ball over.

The obvious Freshman strong point was a defense which held the home team to fifty yards on the ground and ten through the air, and a total of only four first downs. What perhaps best illustrates the supremacy of the Tech defense is that the Frosh were only forced to punt once, and that late in the second quarter with a fourth and one situation.

The factor which kept the Frosh from scoring several times was their twenty-three fumbles. The line was opening holes regularly, thus eliminating the necessity for many pass plays, and almost every time the Frosh ran the ball, they made five

MEPS

(Continued from page 1)
applies to employment of academic and non-academic personnel; and furthermore the personnel hired should agree with the policy of equal opportunity and treatment for all. *Area 6—Student Placement.* The placement service should try to place students on an equal basis giving emphasis on qualifications. The placement service and student government should further try to make a positive effort to remove discriminatory patterns where they are found in employers' policies. *Area 7—Restrictive Clauses in Student Social Organizations.* "Clauses that restrict membership on the basis of race, creed, color, religion, national origin, or political belief in student social organizations (as opposed to non-social religious or similar groups) in institutions of higher education are injurious to the welfare of a democratic society." No new groups with discriminatory clauses should be allowed on the campus. "In the case of existing organizations which do discriminate, the institution should make every effort to obtain the elimination of such discriminatory practices as rapidly as possible. The USNSA recognizes the procedure as effectively initiated on several campuses by which student bodies establish a specific time limit for elimination of restrictive clauses and withdraw official recognition from an organization which fails to meet the time limit unless it is convinced that conscientious effort toward removing these clauses justifies an extension of time. However, we do not necessarily recommend the application of this specific plan for removal of restrictive clauses to all schools in that the needs of certain schools may call for alternative procedures. Student bodies should correlate with their legislative activity a continuous education program in human relations whereby all concerned campus groups may work together toward the elimination of their restrictive clauses and the attainment of social equality." *Area 8—Campus Housing and Boarding.* *Area 9—Off Campus Accommodations and Services.* "Educational institutions have a responsibility to assure equal off campus services to all students wherever possible." *Area 10—Health Facilities.* *Area 11—Physical Education.* "Institutions should engage in only those athletic events which will allow their minority players to participate in the contests." *Area 12—Recreation.*

USNSA recommends that: 1) In order to implement this each member student government work to have its administration adopt the MEPS as well as having the student government adopt it; 2) the student government should set a committee up to see that the standards are implemented and adhered to throughout the entire campus community; 3) the Student government reports any changes which its school makes in adopting the MEPS.

This reporter recommends that any student interested in this or other resolutions of the USNSA eighth congress go to the Institute Committee office in Walker and ask them to make a copy for him.

to ten yards. In all, the yearling Beavers picked up a total of 190 yards on the ground and 50 through the air. Of the six pass plays which he attempted, quarterback Walt Human completed three, one of which was to Mike Haugh for thirty yards early in the fourth quarter. The outstanding individual play of the afternoon was a sixty-six yard punt return by fullback and co-captain Larry Boyd, who ran from his own four to the Thayer thirty late in the fourth quarter.

Outstanding players for the Frosh were right tackle and co-captain Bob Edmondson, left tackle Rich Simons, defensive guard Stein Weissenberger, and line backers Boyd and Haugh.

Although the twenty-three fumbles do not speak well for the Frosh, they seemed to be due to inexperience more than anything else. Head coach Harry Flagg '57 seemed confident, saying, "Now that we've got our first game jitters out of our system, we can settle down for Field Day. With continued hard work and some outside competition, I'd look for the freshmen to win the big one."

ASME DINNER

The American Society of Mechanical Engineers will hold its first Student-Faculty Dinner today. Speaker will be Professor T. P. Rona whose subject will be "Should the Mechanical Engineer Specialize?" Dinner will be held at 5:00 p.m. in the Miller Room. Tickets available to all Mechanical Engineering students in Room 3-174. Price: \$1.90.

The sunshine, snappy autumn air, and the varsity's win over Brown, were not enough to change the Frosh booster's luck. For the third time in a row, they lost by a score of 1-0—this time to the Brown Frosh.

In the first period, after the ball had been volleyed back and forth a few times, Tech's Jose Revenga neatly blocked two swift kicks at midfield. The second one he managed to send to Comerford at center forward, who booted it down to Brown's goal. The Frosh, however, were unable to push it all the way, and the quarter ended in a scoreless tie.

The second quarter moved somewhat faster, and Revenga crossed the ball to Kalnajs in the corner near the Brown goal. Brown saved by snatching the ball from Kalnajs and sending it down Beaver way, but in vain.

Brown's inside left, Arena, dribbled the ball down the Techmen's right side about midfield in the third period. He was in the clear for a shot when Parviz Zadeh, playing fullback, appeared from nowhere and diverted the ball from its intended course.

A high kick in the fourth, might have gone all the way for a Brown point, had not Marquis, Tech's goal protector, jumped up to pull it down just in time. At about ten minutes, however, Brown's McMorris planted the one that hurt. The Beaver's were unable to retaliate and Brown took the game.

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COOP NOMINATIONS

The stockholders at the annual meeting on Wednesday, October 5th, made the following nominations for Stockholders, Officers and Directors:

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To hold office for one year
Francis Keppel

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Vote For JP Queen Sophomore Gridders Win First In Begins Tomorrow Five Years Over Tabor Academy

Election of the Junior Prom-Field Day Queen will be held all day Wednesday, Thursday, and Friday. All undergraduates will have the opportunity to vote for five of the fifteen candidates at the voting booth in Building 10.

The five finalists thus chosen will meet with the judges who will decide the winner. The judges will include two members from the JP committee, two from the Field Day Committee, and one from the Public Relations Committee. After the announcement, at the Prom, the Queen will preside over Field Day, the Cocktail Party, and the Saturday Night Dance.

CIS

(Continued from page 1)

outside the Institute.

The work of the Center reflects the feeling that the Institute, being a center of natural science and engineering, should devote more attention to the social, political, and economic aspects of technological change. As by-products of its work, the Center hopes to develop new teaching materials in the humanities and schedule conferences for analyzing American history in terms of the social sciences.

For the first time in five years an MIT football team defeated Tabor Academy. An eager sophomore squad looked impressive as they ground out a 13-6 decision over the traditional prep school rivals. Disappointed because their first scheduled game had been rained out, the sophs were determined to make the best of last week-end's unusually good weather.

Tabor won the toss and elected to receive. '58's defense held fast and Tabor was forced to kick. The Tech squad moved quickly, picking up two first downs, only to have their drive halted by a fumble. The ball changed hands several times through the rest of the quarter, neither squad being able to mount a concerted attack. Only one pass was thrown in the entire quarter as the teams tested each other's rushing defense.

Early in the second quarter Tabor connected for a 20-yard pass that put them on Tech's 25-yd. line. After a series of running plays, Tabor set up a line plunge which gave them the first score of the game. The try for the extra point was wide and Tabor held the lead 6 to 0. After this first score the sophomores seemed to lose much of their drive and were unable to gain much offensive yardage. The half ended with Tabor still holding a 6 point lead.

From the start of the second half the sophs were a new team. They received the second half kickoff, and in a series of eight downs moved the ball sixty yards for a TD, culminated by an eighteen-yard drive up the middle by fullback John McCarty. John Kipp scored the extra point on a skirt of right end, and '58 went ahead 7 to 6. This touchdown braced the team, and they held Tabor to a standstill for the rest of the quarter.

The fourth quarter saw a continued drive by MIT, especially by half-back John Kipp, who after moving the ball down field on end runs, reached paydirt on a 30-yard drive through the middle. Unsuccessful in the attempt for the extra point the sophomores held a substantial 13 to 6 lead. Tabor threatened only once more when they completed a pass that brought them down to the sophs 16-yard line. Tech met the threat by throwing the Tabor quarterback for several heavy losses. It looked as though the sophs might again be in a scoring position when linebacker Dan Holland intercepted a pass that he carried to the Tabor 35-yd. line. Time ran out, though, before they could capitalize on the play.

MEN NEEDED

There are still several openings on the sports staff for reporters on the following sports: soccer, sailing, Field Day crew, and Field Day swimming. Men who are actively participating on the squads are preferred, but tryouts are open to those who are acquainted with the various sports.

Tech Harriers Top NH Varsity, Frosh

Displaying the form and balance characteristic of recent successful Tech cross-country teams, the MIT harriers easily whipped their University of New Hampshire opponents in a dual meet last Saturday. The score was 22-37. The varsity encounter, which was held on the friendly home environs of Boston's Franklin Park, followed Freshman competition between the two schools in which the Beaver yearlings were less impressive than their elders, being vanquished by a 17-46 count.

Coach Oscar Hedlund's strategy of having his men run together in a pack as long as possible paid off handsomely dividends on the cool, windswept, and often slushy course. The all important balance so necessary in the development of a winning team showed itself in the first meet victory of the season for Tech. Paced by Captain Ray Smith '56 and Dave Vaughn '57, who finished in a dead heat for first, the Beaver harriers also picked up fifth, sixth, eighth, ninth and tenth places. These spots were grabbed by Jack Buell '56, Ed Carter '58, Pete Carberry '57, Walt Kuckles '56, and Bob Solenberger '57, respectively. The squad was considerably bolstered by the season's debut of Buell who should be watched in future meets. The Wildcats were paced by Don Vedeler and Hazen Gale who took third and fourth. The winning time turned in by Vaughn and Smith was a creditable 21:00, considering the poor running conditions.

Hampered by lack of experience, the Frosh harriers showed some improvement over their previous outing, and some measure of success may yet be expected of them before the season runs out. Top finishers for Tech were Mark Forter, Chuck Staples, Alan Fitzpatrick, William Smith, and Henry Couch. The winning time of 15:02 over the 3-mile course was turned in by Don Johnson of UNH.

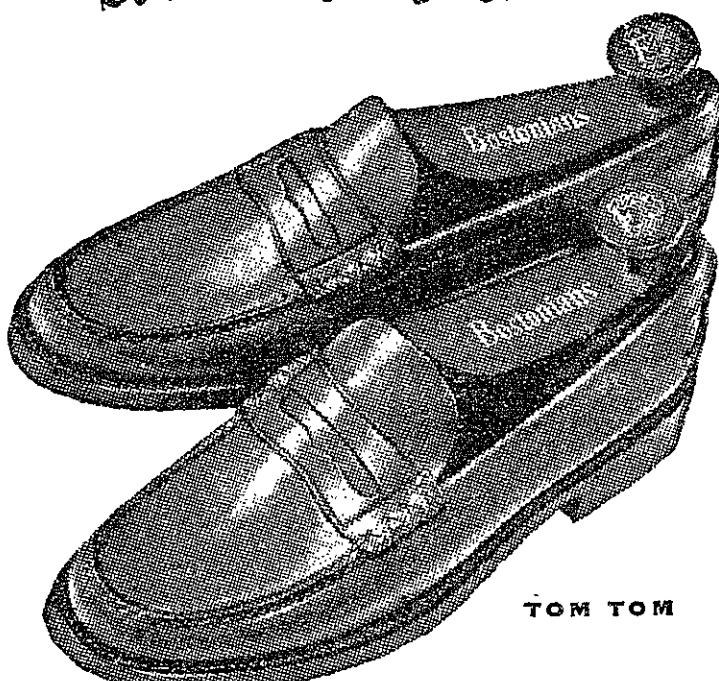
The two squads are now directing their efforts toward preparation for Saturday morning's meet at Franklin Park, a triangular affair involving MIT, Northeastern, and Tufts. Tech and Northeastern are rated about even with Tufts a slight underdog. Based on the improvement shown in their last outing, the Beavers are looking forward to another victory and a challenging position in the coming New England championships. The Frosh meet will precede the Varsity race.

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by William Daly '58

**Intramural Football Nears End;
Phi Delt, Beta and Phi Gam Win**

After several scrimmages with the weather, the third round of play in each league was completed over the week-end. Howie Salwin '58 was the winner of the beer as he picked all five of the games.

In league one Phi Delta Theta edged out Sigma Chi 9-6 on Sunday to become the only undefeated team in the league. Pi Lambda Phi beat Theta Delta Chi 14-7 and meets Grad House Dining Staff next Saturday. The winner of this game meets Sigma Chi on Sunday for the right to play Phi Delta Theta in the finals.

In league two Beta Theta Pi ran over ATO 25-0 on Sunday to knock ATO into the losers bracket. Delta Tau Delta edged Kappa Sig 12-0 and won over AEPI in a 2-0 thriller with the safety coming in the last 10 seconds. The Deltas will meet ATO next Saturday with the winner going against the Betas again in the finals.

In the losers bracket in league three, on Saturday Grad House won over Baker 6-0 and East Campus defeated Lambda Chi Alpha 13-7 as Dick Skavdahl '56 caught two touchdown passes. The first came in the closing seconds of the first half and was set up on an interference penalty on Lambda Chi Alpha. The losers came from behind to tie in the fourth quarter on a plunge from the one foot line by Fitz Rawls '57. Tony Ryan '57 played an excellent game for East Campus. Skavdahl took the winning pass in the closing seconds as East Campus took the right to meet Grad House next Saturday. The winner will meet Sig Ep on Sunday in the finals of the losers bracket and the chance for a shot at SAE on November 6.

In league four Theta Chi knocked out Sigma Nu by a score of 33-0 and came back Sunday to take a 38-6 decision from TEP. In the big game in the league Phi Gam knocked off DU

24-18. Phi Gam opened the scoring in the first minute of play as Tom Hoffman '55 threw to Don Aucamp '57 for sixty yards to the ten and to Aucamp again for the TD. DU bounced back to tie the score as John Roberts '56 intercepted a pass and went all the way to score. Hoffman threw to Fred Culick '56 in the second quarter as Phi Gam forged ahead but John Day '56 blocked a Phi Gam kick and fell on it in the end zone to tie the score. John L. Sullivan '56 ran over the point and DU led at the half, 13-12. The winning touchdown came on a third quarter pass from Culick to Aucamp and Hoffman passed to Art Wilks '58 for the final score of the game. Theta Chi meets DU next Saturday with the winner tangling with Phi Gam for the league championship.

**Beaver Sailors Win
New York Regatta**

Bill Stiles '57 lead the Tech sailors to the championship in the New York Invitational Regatta at Kings Point last week-end as he finished as the top skipper in the regatta. Stiles compiled a total of 66 points and was closely followed by Nick Newman '56 who had 64 points and was second high skipper.

This gave the Engineers a 130 point total and a lead of 16 points over the host Kings Point team who finished second. The remaining teams were Tufts 102, Princeton 93, Cornell 71, Georgetown and RPI 68, and Cincinnati 62.

Stiles' boat was crewed by Steve Strong '56 and Saul Pomponi '57 rode with Newman. The team goes back into action next week-end in preparation for the Schell Regatta and Fowle Championship which are coming up in November.

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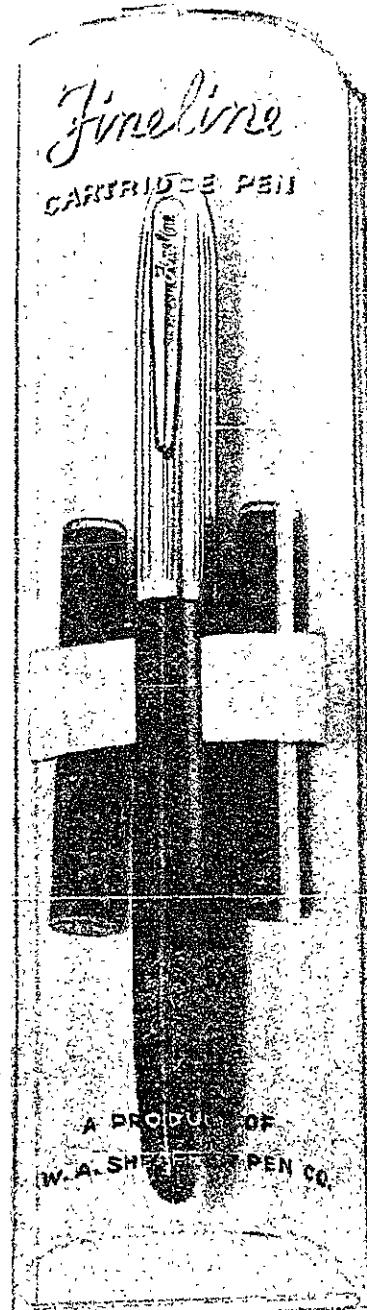
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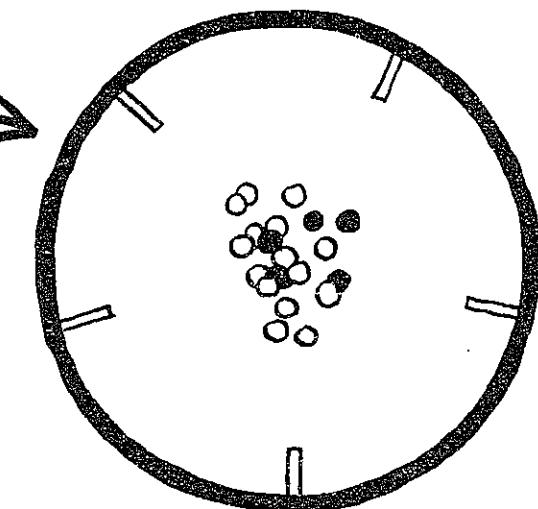
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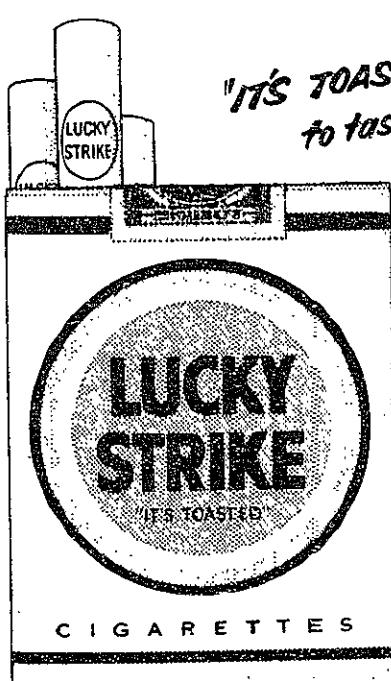


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Tech Soccermen Take Fourth Victory In Five Games, Triumph Over Brown, 4-3, In 2nd Overtime Period



Top: Almeida in action against Brown. Bottom: Brown goalie retrieves a Tech attempt.



Buffet Goal Decides Hard-Fought Battle

Escaping a tie on right wing Tom Buffet's goal at 2:15 of the second five minute overtime period, the Tech varsity soccer team beat Brown, 4 to 3, on Briggs Field Saturday to remain in the running for the New England championship with a four won, one lost record. Buffet scored this, his first goal of the season, with an assist by center forward Cel de Almeida '58.

The first half was slow in action, and not until 8:45 of the third quarter did right inside Bernard Blaschitz '56 break the ice with a score on a penalty kick. A few minutes later Almeida followed with a solo drive which gave the Beavers a second goal. Late in the same quarter Blaschitz connected on his second penalty kick of the game.

Brown came storming back in the fourth quarter against a somewhat relaxed Tech squad and three solo scores by Yeuter, Strom, and Seid tied up the game by the middle of the quarter. The Beaver defense then stiffened although Brown twice came close to scoring the winning goal, missing partly on poor kicks.

The first overtime period was a defensive battle with Brown again coming very close to scoring, but being stopped many times within ten feet of the goal. Just 30 seconds before the end of the second overtime period a penalty kick by Brown went just barely over the top of the Tech goal, ending their final scoring threat.

Coach Martin cited especially the play of inside right Carlos Gonzalez '57, Almeida, and Blaschitz.



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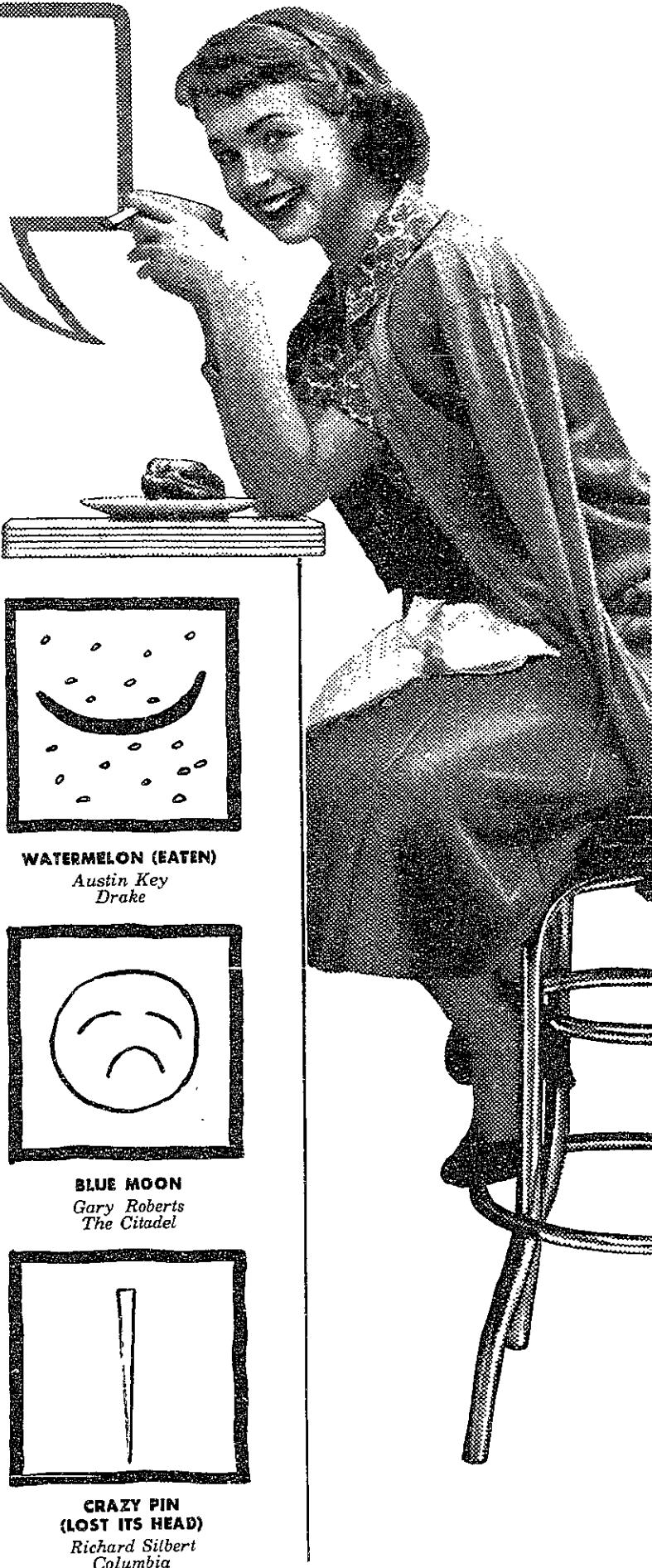
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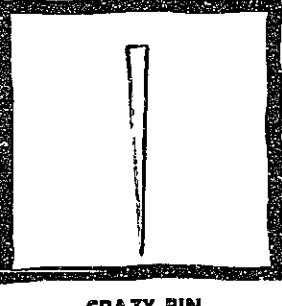
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The Citadel



CRAZY PIN

(LOST ITS HEAD)

Richard Silbert
Columbia



Ivy Tower

(Continued from page 3)

the spiritual life they harbor or foster. Does all this have some significance? Is it symptomatic of a twisted perspective about the values of the school? We cannot be sure, but the thought and impression leaves us uneasy. We communicate our thoughts to our host, the reaction is a bit of embarrassment, and a rapid attempt to formulate the intellectual aspects of the school. We listen for a personal conception, but detect only a couple of slogans . . . "truth" . . . "liberal." We press the point: what makes a school liberal? . . . Well . . . we hear . . . it means that the teacher does not try to impose his point of view too strongly, but respects the point of view of the student. The answer strikes us as weak and vague, and confirms some of our doubts. We shift the conversation to the student body, about this opinions flow more abundantly and with more assurance. We learn about the existence of snobs and so-called pseudo-intellectuals, identifiable by extremely sloppy dress and clannish and artificial unconventionality of behaviour. We hear about good kids and rich kids and kids who only come to have a good time and find a husband, of thoughtful kids and kids who sneer at serious thought. We remember in time that these are personal opinions of a couple of people, that there probably is some truth in it, but not enough to paint an accurate picture. We would like to find out more, but the afternoon is over and it is time to leave. We try to find the roommate who drove us over, but he has disappeared. So we say goodbye to our host, hitch-hike back to school, and so ended an interesting afternoon.



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NEW YORK
1 in a room \$5.50
2 in a room \$4.50
3 in a room \$3.50
4 in a room \$3.00

ROOSEVELT and STATLER
NEW YORK
MAYFLOWER and STATLER
WASHINGTON, D. C.
STATLER HOTELS IN
BUFFALO, BOSTON,
HARTFORD
1 in a room \$6.50
2 in a room \$5.50
3 in a room \$4.50
4 in a room \$4.00



WALDORF-ASTORIA and
PLAZA, NEW YORK
1 in a room \$8.00
2 in a room \$6.50
3 in a room \$5.50
4 in a room \$5.00*

*The Waldorf has no 4 in a room accommodations. All hotel rooms with bath.

FOR RESERVATIONS
write direct to Student Relations Representative at the hotel of your choice.

For information on faculty and group rates in any of the above hotels, write Miss Anne Hillman, Student Relations Director, Eastern Division Hilton Hotels, Hotel Statler, New York City.



Conrad N. Hilton, President

College World

(Continued from page 2)

What density? Propensity to shrink or to expand?
What does it weigh? He must assay To graph its ups and downs!
Porosity? Velocity? Its total stress in pounds?
Proficiency to measure these he gains through years in school
But the one thing he cannot get Is love from his slide-rule.

CALENDAR OF EVENTS (Cont. from page 2)

Morning Chapel Service (United Christian Council) at 8:35 a.m.
WEEKLY SERVICES

Episcopal Holy Communion—Wednesday from 5:10-6:00 p.m.
Eastern Orthodox Christian Evening Worship—Thursday from 5:10-5:30 p.m.
Jewish Sabbath Service (Hillel)—Friday from 7:30-10:00 p.m. Samuel C. Goldman, Reader; Edward West, Cantor.
Roman Catholic Mass—Sunday at 10:00 a.m.
Vedanta Service—Monday from 5:10-6:00 p.m.
Christian Science Organization—Tuesday from 5:15-6:00 p.m.
Baptist Student Union—Tuesday from 7:00-8:30 p.m.
Episcopal Holy Communion—Wednesday from 5:10-6:00 p.m.

MONTHLY SERVICE

Episcopal Holy Communion—Wednesday, November 2, from 7:10-7:40 a.m.

CALENDAR OF EVENTS

The Calendar of Events is distributed to the staff through the Institute's mails each Wednesday, with announcements for the following eight days. Notices should be in the editor's office, Room 7-204, not later than noon on Thursday prior to the date of publication. Material for the Calendar of October November 2-9 is due October 27.

SENIOR PORTRAITS

FOR THE 1956 TECHNIQUE

Will begin Monday, October 31. Make your appointment this week at the booth in Bldg. 10.

The \$3.00 sitting fee applies to the cost of any portraits ordered.

FILL OUT AND RETURN YOUR ACTIVITY BIOGRAPHY
TO THE MIT NEWS SERVICE

Three Wonderful Restaurants

BEST KNOWN IS

39 NEWBURY STREET

at 39 Newbury Street, next to Traynor's

THE ENGLISH ROOM

at 29 Newbury Street, next to Emmanuel Church

AND THE NEW ONE AT

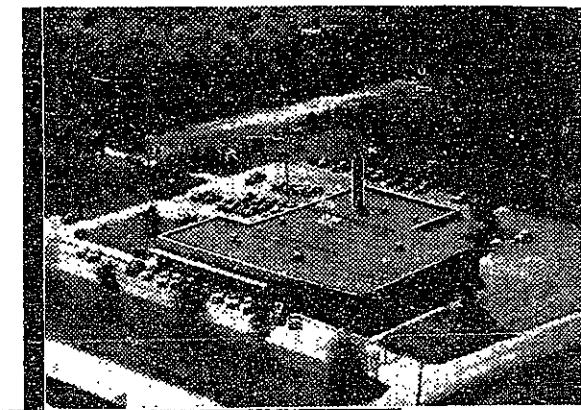
260 BERKELEY STREET

corner of Commonwealth Avenue known as

The Frank and Marion Lawless

Wonderful home made Bread like your Grandmother made and delicious desserts
They are all owned and operated by Frank and Marion Lawless, who have the famous
Carriage House on Cape Cod in North Falmouth

OPEN SUNDAYS



What's doing

at Pratt & Whitney Aircraft

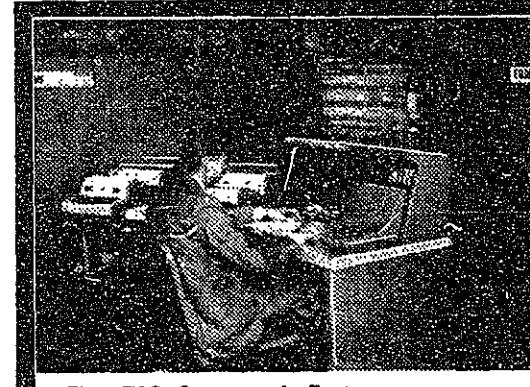


Working engineers of P & W A, waiting for classes to begin at P.P.I.'s new graduate center. Courses include Aeronautical Engineering, Physics, Mathematics, Nuclear Technology, Management Training.

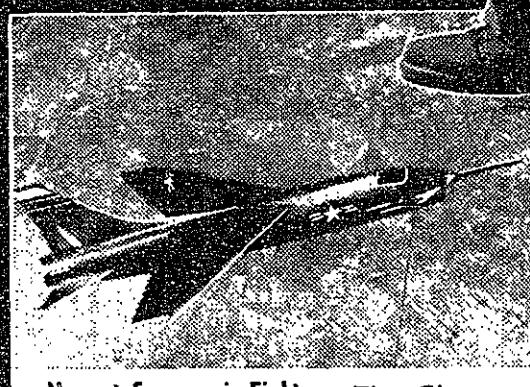
Here's something unique in education.

Near the Pratt & Whitney Aircraft plant in East Hartford, Conn., a full-fledged graduate center was established this fall by Rensselaer Polytechnic Institute. Located 115 miles from R.P.I.'s home campus in upper New York State, the new graduate facilities will enable working engineers from Pratt & Whitney Aircraft and other companies in the Hartford area to continue their studies. Without interrupting normal employment, it will be possible for students to obtain advanced degrees in specialized fields from the nation's oldest engineering college.

Designed to raise the level of knowledge and to broaden the base from which advanced research can be approached, this entire program will simultaneously lead enrolled engineers to greater achievement in their careers.



First 702 Computer in East. Just installed, this advanced I.B.M. computer joins earlier electronic marvels that played a vital role in the development of Pratt & Whitney Aircraft's famed J-57 jet engine.



Newest Supersonic Fighter. The Chance Vought F8U, latest in a growing group of military aircraft to fly faster than sound. Like most other record-breakers, it is powered by a P & W A J-57 turbojet.



Last Wasp Major, most powerful piston engine ever developed, is shipped by P&WA. This marks the end of an era as turbines take over as the source of power for heavy bombers, transports and tankers.

PRATT & WHITNEY AIRCRAFT

DIVISION OF UNITED AIRCRAFT CORPORATION • EAST HARTFORD 8, CONNECTICUT

World's foremost
designer and
builder of
aircraft engines